

All the above are compressed laterally, but the degree of compression is least in typical *artedii* and typical *reighardii*.

*Coregonus*.—The body of *clupeaformis* is most like that of *johanna* in outline.

*Prosopium*.—The body of *quadralateralis* is an elongated ellipse in outline, as in the first group of *Leucichthys*, but the body is nearly torate.

#### Length

The coregonid forms in the Great Lakes have about the same average and maximum lengths. The range in size of specimens seen by me is shown by the dimensions below. From this it appears that the maximum lengths of *Coregonus clupeaformis* and of the smallest species of *Leucichthys* (*loyi* and *kyrii*) only are very different from those of the rest and would be of value in discriminating certain specimens of these species. It appears, further, that the maximum lengths known for each species from the various lakes also are very similar.

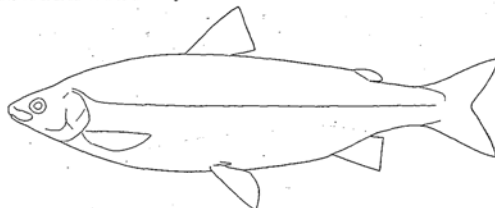


FIG. 10.—Body outline of the type of whitefish common in the upper lakes

Species	Lake	Range in length, in millimeters	Species	Lake	Range in length, in millimeters
<i>Leucichthys johanna</i> .....	Michigan.....	331-393	<i>L. hoyi</i> .....	Michigan.....	82-265
Do.....	Huron.....	375-425	Do.....	Huron.....	79-221
<i>L. artedii</i> .....	Michigan.....	120-265	Do.....	Superior.....	107-231
Do.....	Huron.....	131-368	Do.....	Nipigon.....	106-231
<i>L. reighardii</i> .....	Superior.....	134-307	Do.....	Ontario.....	128-277
Do.....	Nipigon.....	152-323	<i>L. stictus</i> .....	Ken.....	128-409
Do.....	Michigan.....	155-317	Do.....	Michigan.....	124-327
Do.....	Huron.....	159-318	Do.....	Huron.....	125-371
<i>L. regalis</i> .....	Michigan.....	144-279	Do.....	Superior.....	125-343
Do.....	Superior.....	265-320	Do.....	Nipigon.....	125-313
Do.....	Nipigon.....	148-300	Do.....	Ontario.....	126-365
<i>L. clupeaformis</i> .....	Ontario.....	203-290	<i>L. clupeaformis</i> .....	Nipigon.....	220-447
Do.....	Michigan.....	228-365	<i>Coregonus clupeaformis</i> .....	Michigan.....	179 mm. to 6 in.
Do.....	Huron.....	208-371	Do.....	Huron.....	222 mm. to 15 in.
Do.....	Superior.....	199-315	Do.....	Superior.....	195 mm. to 6 in.
Do.....	Nipigon.....	141-313	Do.....	Nipigon.....	292 mm. to 6 in.
Do.....	Ontario.....	297	Do.....	Ken.....	291 mm. to 6 in.
<i>L. ferox</i> .....	Michigan.....	175-345	Do.....	Ontario.....	283 mm. to 6 in.
Do.....	Huron.....	195-349	<i>Prosopium quadralateralis</i> .....	Michigan.....	124-129
Do.....	Superior.....	133-294	Do.....	Huron.....	175-323
Do.....	Ontario.....	146-268	Do.....	Superior.....	16-369
			Do.....	Nipigon.....	101-315
			Do.....	Ontario.....	212-361

#### Depth and Width

Depth and width measurements of the body can not be recorded satisfactorily for specimens of coregonids, because those coming from the deeper waters are always